

Grade 4 · Multiplicative Comparison and Multi-Step Problems · Worksheet

Common Core 4.OA.A.1, 4.OA.A.2, 4.OA.A.3 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

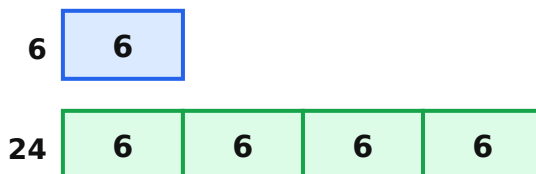
These 24 problems practice multiplicative comparison and multi-step problems from Common Core standards 4.OA.A.1, 4.OA.A.2, and 4.OA.A.3. They begin with reading a multiplication equation as a comparison, then solve for larger and smaller amounts using a letter for the unknown.

The last six problems are multi-step word problems that combine multiplication, addition, and subtraction. Estimate to check each answer.

Grade 4 Common Core: 4.OA.A.1 · 4.OA.A.2 · 4.OA.A.3

Problem 1: Read the equation

Complete the sentence: $24 = 4 \times 6$ means 24 is ____ times as many as 6.



Four groups of 6 make 24.

Problem 2: Two sentences

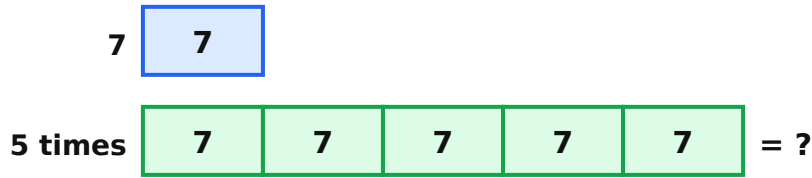
Write two comparison sentences for $35 = 5 \times 7$.

Problem 3: Write the equation

- Write an equation for "18 is 3 times as many as 6."
- Write an equation for "42 is 6 times as many as 7."

Problem 4: Five times as many

Find 5 times as many as 7.



Five groups of 7.

Problem 5: Pencils

Priya has 6 pencils. Noah has 4 times as many pencils as Priya. How many pencils does Noah have?

Problem 6: Tall tree

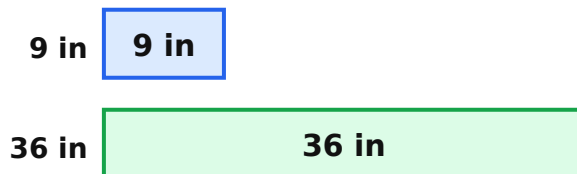
A tree is 9 feet tall. A building is 5 times as tall as the tree. How tall is the building?

Problem 7: Find the unknown

The number 48 is 6 times as many as n . Write an equation and find n .

Problem 8: How many times

How many times as long is the 36-inch ribbon as the 9-inch ribbon?



Compare the two lengths.

Problem 9: More than or times

- Find 7 more than 5.
- Find 7 times as many as 5.

Problem 10: Add or multiply

Write *adding* or *multiplying* to tell how each sentence compares.

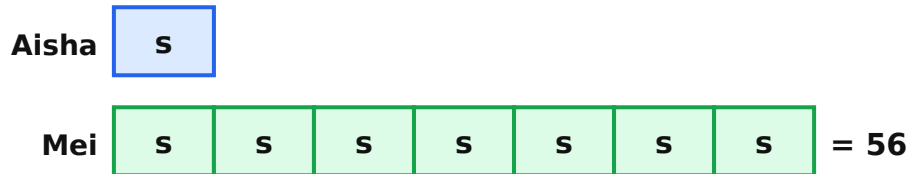
- A rope is 3 feet longer than a ribbon.
- A rope is 3 times as long as a ribbon.
- The red bus is 8 feet shorter than the blue bus.

Problem 11: Pages read

Sofia reads 12 pages. Her brother reads 3 times as many pages. How many pages does her brother read?

Problem 12: Stickers and a letter

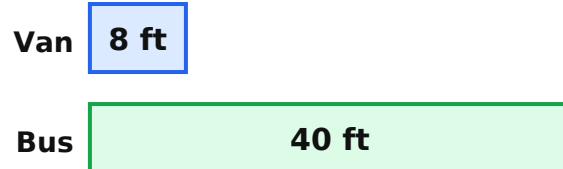
Mei has 56 stickers. That is 7 times as many as Aisha has. Write an equation with the letter s for Aisha's stickers and solve it.



Seven equal parts make 56.

Problem 13: Bus and van

A school bus is 40 feet long. A van is 8 feet long. How many times as long as the van is the bus?



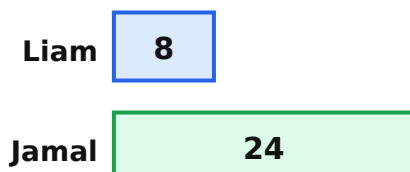
Lengths are drawn to scale.

Problem 14: Pencils sold

The school store sold 72 pencils on Monday. That is 8 times as many as it sold on Friday. Write an equation with the letter p and find how many pencils were sold on Friday.

Problem 15: More and times

Liam has 8 baseball cards. Jamal has 24 baseball cards.



- a. How many more cards does Jamal have?
- b. How many times as many cards does Jamal have?

Problem 16: Two amounts together

Maya has 9 stickers. Sofia has 4 times as many stickers as Maya. How many stickers do they have together?

Problem 17: Estimate and solve

Mei has 62 beads. Diego has 5 times as many beads as Mei. Round 62 to the nearest ten to estimate how many beads Diego has. Then find the exact number.

Problem 18: Savings by month

Ethan saved \$15 in January. In February he saved 3 times as much as in January. In March he saved \$8 less than in February. Use the letters f and m to write equations, then find how much he saved in March.

Problem 19: Concert tickets

A child ticket costs \$9. A VIP ticket costs 4 times as much as a child ticket. Priya buys 1 VIP ticket and 2 child tickets. How much does she spend in all?

Problem 20: Marbles gift

Jamal has 6 marbles. Ava has 5 times as many marbles as Jamal. Ava gives 8 marbles to Liam. Write equations with the letter m and find how many marbles Ava has now.

Problem 21: Runs scored

The Tigers scored 7 runs in a Little League game. The Lions scored 3 times as many runs as the Tigers. The Eagles scored 4 fewer runs than the Lions. How many runs did the three teams score in all?

Problem 22: Is it reasonable

A farm has 38 hens. It has 7 times as many chicks as hens. Noah says there are 366 chicks. Use estimation to explain why his answer is not reasonable, then find the correct number.

Problem 23: Fruit stand

Diego sells 25 apples at the farmers market. He sells 4 times as many oranges as apples, and 15 fewer pears than oranges. How many pieces of fruit does he sell in all?

Problem 24: Beads and bags

Maya has 72 beads. That is 9 times as many beads as Sofia has. Then Sofia buys 5 bags with 8 beads in each bag. How many beads does Sofia have now?